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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|-----------------------|------------------|
| 09/955,983 | 09/20/2001 | Tetsuhiko Miyatani | 2001_1335A | 1906 |
| 513 | 7590 | 09/08/2004 | EXAMINER | |
| WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021 | | | RAMAKRISHNAIAH, MELUR | |
| | | ART UNIT | PAPER NUMBER | |
| | | 2643 | 2 | |

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|----------------------|---------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 09/955,983 | MIYATANI, TETSUHIKO |
| | Examiner | Art Unit |
| | Melur Ramakrishnaiah | 2643 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 20 September 2001.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-19 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 17-19 is/are allowed.

6) Claim(s) 1-16 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-16, are rejected under 35 U.S.C 102(e) as being anticipated by Arnott (GB 2342505 A).

Regarding claim 1, Arnott discloses a communication device for transmitting and/or receiving signals using a communication antenna, comprising: signal characteristic information detection means in (106, fig. 2) for detecting information regarding signal characteristics of a calibration signal contained in a signal received by the communication antenna (22, fig. 2), a calibration means (106, fig. 2) for calibrating communication antenna chain (22, fig. 2) based on the detected signal characteristic information (page 10, line 15 – page 14 line 13), cancellation generating means for generating cancellation signal corresponding to calibration signal contained in the signal received by the communication antenna based on the calibration signal, signal cancellation by subtraction means for generating the cancellation signal received by the communication antenna (note: this reads on adjusting the correction factors stored, page 14 lines 10-13), receive signal processing means in (106, fig. 2) for processing the received signal diminished by cancellation.

Regarding claims 2-16, Arnott further teaches the following: calibration signal transmitting antenna for transmitting a calibration signal to the communication antenna, calibration signal transmitting means for transmitting calibration signal from a communication antenna, and calibration signal receiving antenna for the calibration signal transmitted from the communication antenna (this is implied, page 11, lines 23-25), the signal characteristic information detection means in (106, fig. 2) detecting information regarding the signal characteristics of the calibration signal received by the calibration receiving antenna, and the calibration means (106) calibrating the communication antenna chain (22, fig. 2) based on signal characteristics information, a signal generator (107, fig. 2) for generating signal of prescribed frequency for converting the signal frequency, a frequency signal generated by a common signal generator being supplied to multiple antenna chains including all communication antenna chains (22, page 11 lines 19-25), transmission/reception of a calibration signal by the communication antenna and detection information regarding signal characteristics of the calibration signal by the signal characteristic information detection means in (106, fig. 2) are performed at intervals (page 7 lines 16-22).

3. Claims 17-19, are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melur Ramakrishnaiah whose telephone number is (703) 305-1461. The examiner can normally be reached on M-F 6:30-4:00; every other F Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on (703)305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Melur Ramakrishnaiah
Primary Examiner
Art Unit 2643